CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

Job No.: CTCE/BBMP/WNo.14/KRIDL/CEMENT/2012-13

Date: 08.03.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
NAME OF THE WORK	:	Providing cement concrete drains and covering slabs at Karekallu in Bagalagunte, Ward No. 14, T. Dasarahalli Sub Division, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/510/9/2012-13 Dated: 05.03.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	158 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	476 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

Note:

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Job No.: CTCE/BBMP/WNo.14/KRIDL/SAND/2012-13 : 08.03.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Providing cement concrete drains and covering slabs at Karekallu in Bagalagunte, Ward No. 14, T. Dasarahalli Sub Division, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/510/9/2012-13 Dated: 05.03.2013

Date of Testing : 08.03.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	96	4.80	4.80	95.2	90-100
2.36	253	12.65	17.45	82.6	75-100
1.18	415	20.75	38.20	61.8	55-90
600 Micron	508	25.40	63.60	36.4	35-59
300 Micron	483	24.15	87.75	12.3	8-30
150 Micron	157	7.85	95.60	4.4	0-10

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Job No.: CTCE/BBMP/WNo.14/KRIDL/AGG/2012-13 : 08.03.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Providing cement concrete drains and covering slabs at Karekallu in Bagalagunte, Ward No. 14, T. Dasarahalli Sub Division, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/510/9/2012-13 Dated: 05.03.2013

Date of Testing : 08.03.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	998	3.91	3.91	96.09	95-100
20	16128	63.25	67.16	32.84	30-70
10	5397	21.16	88.33	11.67	10-35
4.75	2658	10.42	98.75	1.25	0-5

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Job No.: CTCE/BBMP/WNo.14/KRIDL/CUBE/2012-13 11.04.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, Bangalore.
Name of the work	: Providing cement concrete drains and covering slabs at Karekallu in Bagalagunte, Ward No. 14, T. Dasarahalli Sub Division, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/510/9/2012-13 Dated: 05.03.2013
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2013	11.04.2013	8.123	479.6	21.32
2	14.03.2013	11.04.2013	8.218	498.7	22.16
3	14.03.2013	11.04.2013	8.326	513.6	22.83

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Job No.: CTCE/BBMP/WNo.14/KRIDL/CUBE/2012-13 16.04.2013

TEST REPORT ON CONCRETE CUBES

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Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.03.2013	16.04.2013	8.083	473.5	21.04
2	19.03.2013	16.04.2013	8.137	493.2	21.92
3	19.03.2013	16.04.2013	8.249	511.7	22.74

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